
**New York State Department of Environmental Conservation
Notice of Complete Application**

Date: 01/31/2025

Applicant: CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
4 IRVING PL 15TH FL NE
NEW YORK, NY 10003-3502

Facility: CON ED - ASTORIA FACILITY
31-01 20TH AVE|(North side of 20th Avenue & West side of Luyster Creek)
Queens (6301), NY 11105

Application ID: 2-6301-00006/00081

Permits(s) Applied for: 1 - Article 19 Air Title V Facility

Project is located: in QUEENS COUNTY

Project Description:

The Department has prepared a draft permit and has made a tentative determination, subject to public comment or other information, to approve a Title V permit modification application, Modification 1 Renewal 3 Air Title V (hereinafter referred to as "Modification"), submitted by Consolidated Edison Company of New York Inc. for its existing Con Edison Astoria Facility (the "Facility") located at 31-01 20th Avenue, Astoria, NY. The Modification involves the replacement and retirement of an existing gas-fired simple cycle turbine with a new, lower-emitting, more efficient gas-fired simple cycle turbine associated with the liquefaction of natural gas at the Liquefied Natural Gas (LNG) Plant (Plant), which is one of Con Edison's existing operations at its Astoria Facility. The LNG Plant stores LNG in an onsite storage tank and provides a backup supply of natural gas that enables Con Edison to maintain service to utility customers during unplanned natural gas supply contingencies and extreme winter weather. The existing Facility as a whole houses critical public utility electric and gas infrastructure and ancillary public utility operations. Existing Facility operations include repairing and painting transformers, which includes five paint booths, 17 welding bays, and three grit blasters, a gas station, and two fuel storage tanks (4,000 gals. each) as well as the LNG Plant and associated LNG equipment.

The Facility's potential to emit NOX emissions exceed the major thresholds of 25 tpy, thus qualifying the Facility for a Title V permit.

The Modification to replace the gas turbine is in connection with Con Edison's proposed Nitrogen Refrigeration Cycle Replacement Project (Project) that the Company will undertake at its Astoria Facility's existing LNG Plant to maintain reliable utility operations. The Modification entails the retirement and replacement of the existing 82 MMBtu/hr gas turbine (GT014), used for natural gas liquefaction, with a new, more efficient Siemens 54 MMBtu/hr gas turbine (GT015) that will substantially reduce the Facility's air emissions. As with the older turbine, the new turbine will combust only natural gas and power an existing nitrogen compression refrigeration system used to liquefy natural gas for storage in the Plant's LNG storage tank. When needed, emissions from the storage of the LNG will continue to be controlled with two safety devices - an existing flare (9090 Mmbtu/hr) and a ground combustor (rated at 250 MMBtu/hr). Five (5) existing natural gas fired vaporizers (each with four 10.5 MMBtu/hr burners), which convert LNG back to gaseous form for distribution to public utility customers when needed; an existing flare and a ground combustor, which together manage

pressure within the Plant's LNG storage tank, will remain in use. The proposed Modification would not change the Plant's LNG storage capacity or amount of LNG vaporized and is expected to result in a reduction in the Facility's air emissions, including greenhouse gases (GHGs), due to the new turbine's increased efficiency.

The existing turbine currently has a source specific NOX RACT variance limit of 92 ppmvd corrected at 15% O2 (the presumptive limit is 50 ppmvd corrected to 15% O2 pursuant to 6 NYCRR Part 227-2.5(c)).

The new turbine will meet 40 CFR Subpart 60 KKKK New Source Performance Standard (NSPS) NOX limit of 25 ppmvd corrected to 15% O2 and SO2 limit of 0.06 lb/MMBtu. Therefore, with this Modification, the turbine will also meet the required subpart 227-2 NOX RACT limit of 50 ppmvd corrected to 15% O2.

Also, the NOX emissions from the new turbine GT015 will be limited to 12.15 tpy to keep the project emissions below the significant net emission threshold for a major Part 231 modification. To ensure compliance with the yearly NOX limit, annual operation of the new turbine will be limited to 4380 hours per year.

This Title V Modification contains a complete listing of the applicable Federal and State compliance testing, monitoring and reporting requirements for this Facility, its emission units and emission points.

Pursuant to the requirements of Section 7(2) and 7(3) of the Climate Leadership and Community Protection Act (CLCPA), the Department has requested and received information regarding the project's consistency with CLCPA.

In accordance with 6NYCRR Parts 621.7(d)(9) and 201-6.3(c), the Administrator of the United States Environmental Protection Agency (USEPA) has the authority to bar issuance of any Title V Facility Permit if it is determined not to be in compliance with applicable requirements of the Clean Air Act or 6NYCRR Part 201.

Persons wishing to inspect the subject Title V files, including the application with all relevant supporting materials, the draft permit, and all other materials available to the DEC (the "permitting authority") that are relevant to this permitting decision should contact the DEC representative listed below. The Draft Permit and Permit Review Report may be viewed and printed from the Department web site at:

<https://dec.ny.gov/environmental-protection/air-quality/controlling-pollution-from-facilities/permits-registrations-fees>.

DEC will evaluate the application and the comments received on it to determine whether to hold a public hearing. Comments and requests for a public hearing should be in writing and addressed to the Department representative listed below. A copy of the Department's permit hearing procedures is available upon request or on the Department web site at: <https://dec.ny.gov/regulatory/permits-licenses/environmental-permits/guide-to-permit-hearings>.

Availability of Application Documents:

Filed application documents, and Department draft permits where applicable, are available for inspection during normal business hours at the address of the contact person. To ensure timely service at the time of inspection, it is recommended that an appointment be made with the contact person.

State Environmental Quality Review (SEQR) Determination

Project is an Unlisted Action and will not have a significant impact on the environment. A Negative Declaration is on file. A coordinated review was not performed.

SEQR Lead Agency
None Designated

State Historic Preservation Act (SHPA) Determination

The proposed activity is not subject to review in accordance with SHPA. The application type is exempt and/or the project involves the continuation of an existing operational activity.

Coastal Management

This project is located in a Coastal Management area and is subject to the Waterfront Revitalization and Coastal Resources Act.

DEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29)

The proposed action is subject to CP-29.

Availability For Public Comment

Comments on this project must be submitted in writing to the Contact Person no later than 03/07/2025 or 30 days after the publication date of this notice, whichever is later.

Contact Person

DENISE L GRATTAN
NYSDEC
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